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10/085,910	02/28/2002	Tommi Auranen	004770.00039	1183	
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1100 13th STREET, N.W. SUITE 1200 WASHINGTON, DC 20005-4051			TORRES, MARCOS L		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/085,910	AURANEN ET AL.		
Examiner	Art Unit		
MARCOS L. TORRES	2617		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Any	reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any ed patent term adjustment. See 37 CFR 1.704(b).				
Status					
1)🛛	Responsive to communication(s) filed on 20 August 2008.				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
4)🛛	Claim(s) 1.3-42.44.46 and 47 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)	Claim(s) is/are allowed.				
6)🖂	Claim(s) 1,3-42, 44 and 46-47 is/are rejected.				

Application Papers

9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1	.85

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

8) Claim(s) _____ are subject to restriction and/or election requirement.

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

7) Claim(s) _____ is/are objected to.

a) All b) Some * c) None of:

1	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a))

* See the attached detailed Office action for a list of the certified copies not received.

Α	tta	ch	m	e	nt	(s

Attaciment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) X Information Disclosure Statement(s) (РТО/ЗБ/08)	5) Notice of Informal Patent Application	
Paper No(s)/Mail Date 8-22-08.	6) Other:	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8-20-08 has been entered.

Response to Arguments

- 2. Regarding applicant's representative [hereinafter applicant] arguments directed to the 112 1st rejection, in order to overcome the 112 rejection the applicant must show the support [expressly, implicitly or inherently] from the specification, however in the response submitted by the applicant does not contain any reference to specification. Thereby, the 112 rejection it is maintained because the original filed specification, as well as original claims, does not provide any support or definition of the computer readable storage media such that one skill in the art would not recognize that the inventor(s) had possession of the claimed invention at the time the application was filed.
- 3. It is noted that applicant in the arguments for the 112 rejection takes the position that the specification may omits that which is well-known to those skilled in the art and already available to the public, however on the first paragraph on page 14, the applicant takes the opposite position when the prior art does not use the same terms in the disclosure. Therefore, as admitted by the applicant the specification shall provide

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proof/documentation as the filing data of February 28, 2002 the applicant has possession of the invention as claimed. Now changing to the prior art, as admitted by the applicant the prior art may omits that which is well-known to those skilled in the art and already available to the public. Nevertheless, a new ground of rejection is showing the common and well known technique of performing the handoff between burst [packets, frames, etc].

- 4. Regarding applicant's arguments directed to the paragraph 5 of the prior advisory action, it is noted that there is a difference between considering a reference as a whole and bringing a reference as a whole. The reference must be considered as a whole but that does not means that every single limitation of the reference has to be brought to the modified system of Jonsson and Chen. It is within the knowledge of one of the ordinary skills in the art to choose the teachings needed.
- 5. Applicants asserts that Malek is incompatible because it is a bidirectional protocol, but fails to explain why if any incompatibility issue arise; Malek reference is being used to show the common and well known technique of using different frequencies between the neighbors base station to avoid channel interference. This is a common and well-known practice and would be obvious to one of the ordinary skills in the art at the time of the invention as described in Malek in col. 1, lines 57-64. As to the argument of unidirectional vs. bidirectional communication; independently of which type of communication, the co-channel interference would affect both type of communication and using the same solution for the other communication system would bring the same expected result.

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Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 7. Claims 24-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The examiner was unable of finding support for the new limitation "computer-readable storage media storing executable instruction", please indicate where in the specification support can be found.
- 8. Claims 1 and 24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The examiner was unable of finding support for the new limitation "via a uni-directional protocol".
- Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

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Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed

or described as set forth in section 102 of this title, if the differences between the

subject matter sought to be patented and the prior art are such that the subject

matter as a whole would have been obvious at the time the invention was made

to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was

made.

11. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

Considering objective evidence present in the application indicating

obviousness or nonobviousness.

12. Claims 1, 6-8, 21, 23-29, 31, 33-38, 41-42 and 46 are rejected under 35 U.S.C.

103(a) as being unpatentable over Jonsson (U.S. Patent 5,513,246) in view of Chen US

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6731936 B2 and further in view of Malek US 5822313A and further in view of Upton 5784695.

As to claim 1, Jonsson discloses a method comprising: receiving at a mobile terminal a first signal broadcast by a first wireless transmitter at a frequency (see col. 7. lines 20-48); when said first signal meets a first predefined criterion (see col. 10. lines 3-10), deriving signal data from a second signal broadcast by a second wireless transmitter (see col. 10, lines 11-15); and determining that said signal data from said second wireless transmitter meets a second predefined criterion, switching reception from said first wireless transmitter to said second wireless transmitter (see col. 10. line 3 - col. 11, line 45) and switching reception to said second wireless transmitter (see fig. 1e). Jonsson does not specifically disclose that the broadcast data is video or that the handoff is between burst. In an analogous art, Chen discloses: receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6. lines 61-66), if said first signal meets a first predefined criterion (see col. 8, lines 8-13), determining at the mobile terminal that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and switching reception to said second wireless transmitter (see col. 8, lines 54-57; col. 7, lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the

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communication service as suggested by Jonsson in col. 1, lines 26-29 and Chen in col. 2. lines 44-47 and enhance the services (see col. 4. lines 35-41). Although it is clear that transmission burst [slot, frame] in a TDMA system are part of a series of periodic burst [slot, frame], the prior references does not disclose this obvious detail. In an analogous art. Malek discloses wherein transmission burst or slot in a TDMA system. are part of a series of periodic burst [slot, frame] which are repeated in intervals (see col. 2, lines 8-15). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to use periodic burst for the simple purpose of comply with the TDMA system for compatibility with already existing protocols. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art, Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the

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crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claims 6, Jonsson discloses a method wherein said first criterion is met if a receiver signal strength value for said first signal measured by the mobile terminal is less than a predetermined value (see col. 9, lines 9-20; col. 10, lines 3-55). Jonsson does not specifically disclose that the broadcast data is video. In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64), thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching to the Jonsson method for maintaining the data quality in a mobile multimedia device.

As to claims 7-8, Jonsson discloses a method wherein said first and second is met by been greater or smaller than a predetermined value (see col. 10, lines 3-55). Jonsson does not specifically disclose criterion is a bit error rate. Chen discloses were the criterions is a bit error rate and deriving it from the signal (see col. 8, line 10-13).

As to claim 24 and 33, Jonsson discloses a apparatus comprising: a digital broadcast receiver that receives digital broadcasting information for receiving information from a plurality of synchronized digital broadcasting wireless transmitters (see col. 2, lines 32-38), said digital broadcast receiver configured to receive at least a first portion of the information as a first transmission burst, said first transmission burst broadcast by a first digital broadcasting wireless transmitter (see col. 7, lines 20-48); a processor coupled to the digital broadcast receiver (see col. 7, lines 54-57), switch

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reception by the digital broadcast receiver from the first digital broadcasting wireless transmitter to a second digital video broadcasting wireless transmitter (see col. 10, line 3 - col. 11, line 45). Jonsson does not specifically disclose the type of data and second digital video broadcasting wireless transmitters. In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64) and transmit a synchronized information by a common service provider (see col. 6, lines 65 - col. 7, line 50), and going a handover by the synchronized first and second digital video broadcasting wireless transmitters (see col. 8, lines 54-57; col. 7, lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching to the Jonsson method for maintaining the data quality in a mobile multimedia device. Jonsson and Chen do not specifically disclose the buffer configured to store said first transmission burst. In an another analogous art, Malek discloses a buffer configured to store said first transmission burst; a mobile station executing a handover after reception of said first transmission burst has been completed and before a consecutive transmission burst is sent by the synchronized first and second digital broadcasting wireless transmitters (see col. 6, lines 31-35; col. 3, lines 56 67; col. 4, lines 10-14). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching to the Jonsson method for maintaining the data quality in a mobile multimedia device. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is

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well-known to those skilled in the art and already available to the public. In an analogous art, Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claims 25 and 34-35, Jonsson discloses a method/system wherein said first and second is met by been greater or smaller than a predetermined value (see col. 10, lines 3-55). Chen discloses were the criterion is a bit error rate and deriving it from the signal (see col. 8, lines 10-14).

As to claims 26, Jonsson discloses a method wherein said first criterion is met if a receiver signal strength value for said first signal measured by the apparatus is less than a predetermined value (see col. 9, lines 9-20; col. 10, lines 3-55). Jonsson does not specifically disclose that the broadcast data is video. In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64), thereby allowing the transmission of digital video broadcasting.

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As to claim 27, Jonsson discloses wherein the switching of said signal data from said second wireless transmitter meets a second predefined criterion, switching reception from said first wireless transmitter to said second wireless transmitter after a first signal transmission burst has been received (see col. 10, line 3 - col. 11, line 45). In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64), thereby allowing the transmission of digital video broadcasting.

As to claim 31. Jonsson discloses a system comprising: a first digital broadcasting transmitter configured to broadcast information as a first plurality of consecutive transmission bursts (see col. 7, lines 20-48; col. 9, lines 45-53); a second digital video broadcasting transmitter configured to broadcast the information as a second plurality of consecutive transmission bursts in synchronization with the first plurality of consecutive transmission bursts (see col. 10, lines 11-15; col. 5, lines 40-49), and a receiver system configured to receive said information (see col. 5, line 56 - col. 6, line 1), said receiver further including a processor, and executable instructions executed by the processor (see col. 6, lines 15-24; 52-59 col. 8, lines 18-25), cause the processor to perform a hand-over from said first digital broadcasting transmitter to said second digital broadcasting transmitter upon receipt of a first transmission burst, if at least one predefined criterion has been met (see col. 10, line 3 - col. 11, line 45). Jonsson does not specifically disclose the video data, receiver system including a buffer configured to buffer said transmission bursts or handover prior to a consecutive transmission burst. In an analogous art, Chen discloses: receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6, lines 61-66), if

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said first signal meets a first predefined criterion (see col. 8, lines 8-13), determining at the apparatus that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and going a handover (see col. 8, lines 54-57; col. 7, lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the communication service as suggested by Jonsson in col. 1, lines 26-29 and Chen in col. 2, lines 44-47 and enhance the services (see col. 4, lines 35-41). In an analogous art, Malek discloses a buffer configured to store said first transmission burst; a mobile station executing a handover after reception of said first transmission burst has been completed and before a consecutive transmission burst is sent by the synchronized first and second digital broadcasting wireless transmitters (see col. 6, lines 31-35; col. 3, lines 56 67; col. 4, lines 10-14). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine both teachings for enhanced management of system resources. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art. Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to

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permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claims 28 and 29, Malek discloses the apparatus wherein the executable instructions are further for converting said first transmission burst in a data stream which is not disclose by the primary reference (see col. 4, lines 9-25).

As to claim 41, Malek discloses wherein the pluralities of transmitters are synchronized which is not disclose by the primary reference (see col. 2. lines 49-53).

As to claim 42, Malek discloses method wherein said step of selecting said second wireless transmitter for receiving the information is performed after receipt of a signal transmission burst from said first wireless transmitter, and prior to receipt of a consecutive signal transmission burst from said second wireless transmitter which is not disclose by the primary reference (see col. 6, lines 31-35).

As to claim 21, Jonsson discloses a method comprising: a mobile terminal for receiving a series of signals provided by each of plurality of wireless transmitters (see col. 9, lines 45-53), selecting a first wireless transmitter from a plurality of wireless

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transmitters for providing information (see col. 9, lines 1-20), each said wireless transmitter broadcasting; receiving signals broadcast by the first wireless transmitter (see col. 7, lines 20-48); configured to derive a first quality rate for information received from said first wireless transmitter; when said first quality rate for said first wireless transmitter is greater than a predefined quality value, deriving a second quality rate for a second synchronized wireless transmitter; and when said second quality rate is less than said quality value, selecting said second synchronized wireless transmitter for providing the information (see col. 10, line 3 - col. 11, line 45) and switching reception directly to said second wireless transmitter (see fig. 1e). Jonsson does not specifically disclose synchronized wireless transmitter, that the quality rate is a bit error rate or the BTS on different frequencies or video broadcast. In an analogous art, Chen discloses a mobile station selecting transmitters (see col. 8, lines 54-57; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5); the criterion is a bit error rate and deriving it from the signal (see col. 8, lines 10-13, 28-32). Aditionally, Chen discloses; receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6, lines 61-66), if said first signal meets a first predefined criterion (see col. 8, lines 8-13), determining at the mobile terminal that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and going a handover by the synchronized first and second digital video broadcasting wireless transmitters (see col. 8, lines 54-57; col. 7, lines 62-67); thereby

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allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the communication service as suggested by Jonsson in col. 1, lines 26-29 and Chen in col. 2, lines 44-47 and enhance the services (see col. 4, lines 35-41). In an analogous art, Malek discloses using different frequencies for different base station which is not shown by the previous references (see col. 1, lines 58-63), thereby minimizing co-channel interference. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine this teaching with the Jonsson system for an even quality of communication. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art, Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57). the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the

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crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claim 36, Jonsson discloses a comprising the steps of: receiving signals broadcast synchronously by the first and second wireless transmitters (see col. 2. lines 32-38; col. 5, line 45-49), selecting the first wireless transmitter for receiving information broadcast in consecutive transmission bursts, (see col. 9, lines 1-20), each said synchronized wireless transmitter broadcasting; receiving signals broadcast by the first wireless transmitter (see col. 7, lines 20-48); deriving a first quality rate for information received from said first wireless transmitter; if said first quality rate for said first wireless transmitter is greater than a predefined quality value, deriving a second quality rate for a second wireless transmitter; and if said second quality rate is less than said quality value, selecting said second wireless transmitter for providing the information (see col. 10, line 3 - col. 11, line 45) and switching reception directly to said second wireless transmitter (see fig. 1e). Jonsson does not specifically disclose that the quality rate is a bit error rate or the BTS on different frequencies or that the data is video. However, Jonsson discloses that he is using TDMA a system that uses synchronized wireless transmitter. In an analogous art, Chen discloses a mobile station selecting transmitters (see col. 8, lines 54-57; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5) and were the criterion is a bit error rate and deriving it from the signal (see col. 8, lines 10-13, 28-32), thereby permitting a soft handover. Also aditionally, Chen discloses: receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6, lines 61-66), if said first signal meets a first predefined criterion

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(see col. 8, lines 8-13), determining at the mobile terminal that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12. lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and doing a handover by the synchronized first and second digital video broadcasting wireless transmitters (see col. 8, lines 54-57; col. 7. lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the communication service as suggested by Jonsson in col. 1, lines 26-29 and Chen in col. 2, lines 44-47 and enhance the services (see col. 4, lines 35-41). In an analogous art, Malek discloses using different frequencies for different base station which is not shown by the previous references (see col. 1, lines 58-63), thereby minimizing co-channel interference. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine this teaching with the Jonsson system for an even quality of communication. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art, Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts

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[packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claims 23 and 38, Jonsson discloses a method wherein said first criterion is met if a receiver signal strength value for said first signal measured by the mobile terminal is less than a predetermined value (see col. 9, lines 9-20; col. 10, lines 3-55).

As to claim 37, Malek discloses method wherein said step of selecting said second wireless transmitter for receiving the information is performed after receipt of a signal transmission burst from said first wireless transmitter, and prior to receipt of a consecutive signal transmission burst from said second wireless transmitter which is not disclosed by the primary reference (see col. 6, lines 31-35).

As to claim 46, Jonsson discloses a method wherein the series of periodic bursts are included in a time-sliced digital signal (see col. 5, lines 45-49). Jonsson does not specifically disclose wherein the data is video broadcasting. In an analogous art, Chen disclose a method wherein the series of periodic bursts are included in a time-sliced digital video broadcasting signal and wherein the first digital video broadcasting signal comprises a first time-slice of the time-sliced digital video broadcasting signal (see col.

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6, lines 61-64; col. 1, lines 31-55). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to broadcast other data such as video as suggested by Chen in col. 4, lines 21-41.

Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson
 (U.S. Patent 5,513,246) in view of Chen US 6731936 B2 and Malek and Upton as applied to claim 1 above, and further in view of Ahopelto (U.S. Patent 5,970,059).

As to claim 3, Jonsson discloses everything claimed as explained above except for the step of stripping encapsulation from said first signal after receipt by the mobile station or the broadcast data is video. Ahopelto discloses the step of stripping encapsulation from said first signal after receipt by the mobile station (see col. 9, lines 28-30). In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64), thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching for the simple purpose of using the data.

14. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson (U.S. Patent 5,513,246) in view of Chen US 6731936 B2 and Malek and Upton as applied to claim 1 above, and further in view of OFFICIAL NOTICE.

As to claim 4, OFFICIAL NOTICE IS TAKEN THAT the use of several synchronized transmitters is a common and well-known technique used in several wireless communication standards such as GSM and TDMA. Also, the EN 301192 is a common and well-known standard. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to use such standards in the Jonsson

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modified system for the simple reason of compatibility.

As to claim 5, Jonsson discloses a method further comprising the step of sending said first signal to an application processor for conversion (see col. 5, line 40 - col. 8, line 24), to a data packet (see col. 6, lines 13-28). In an analogous art, Chen discloses wherein the broadcast data is video (see col. 6, lines 61-64), thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine this teaching for improved network bandwidth management.

15. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen and Malek and Upton as applied to claim 21 above, and further in view of Taketsugu (U.S. Patent US005420863A).

As to claim 22, Jonsson discloses everything claimed as explained above except for selecting a wireless transmitter between transmissions burst. In an analogous art, Taketsugu discloses selecting a wireless transmitter between transmissions burst (see col. 6, lines 41-56), thereby allowing a smooth transition between transmitters without loosing or having to retransmit data. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine both teachings for enhanced management of system resources.

16. Claims 9-14, 16, 18-20 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen and further in view of Makinen (U.S. Patent 5.764,700) and further in view of Upton.

As to claims 9 and 12-14, Jonsson discloses an apparatus/system comprising: a

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digital broadcast receiver configured to receive digital broadcasting information from a plurality of wireless transmitters, wherein the digital broadcasting receiver is configured to receive at least a first portion of the information as a first transmission burst, said first transmission burst broadcast by a first wireless transmitter; and an election module configured to switch reception from the first wireless transmitter to a second wireless transmitter (see col. 5, line 40 - col. 11, line 42) and switching reception directly to said second wireless transmitter (see fig. 1e). Jonsson does not specifically disclose that the receiver is a digital video broadcasting. In an analogous art, Chen discloses wherein the information is a digital video broadcasting (see abstract), thereby providing enhanced services. Also, Chen discloses: receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6, lines 61-66), if said first signal meets a first predefined criterion (see col. 8, lines 8-13), determining at the apparatus that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and doing a handover by the synchronized first and second digital video broadcasting wireless transmitters (see col. 8, lines 54-57; col. 7, lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the communication service as suggested by Jonsson in col. 1, lines 26-29 and Chen in col. 2, lines 44-47 and enhance the services (see col. 4, lines 35-41).

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Jonsson and Chen do not specifically disclose an elastic buffer in the receiver. In another analogous art. Makinen discloses an elastic buffer in the receiver (see col. 2. line 59 - col. 3, line 14). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching to the Jonsson apparatus for a reliable reception of data even if the timing are not precise. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art. Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

Regarding claim 11, Jonsson discloses the apparatus further comprising election module configured for deriving a received signal strength indicator value for said first transmission burst (see col. 10, lines 30-38).

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As to claim 16, Jonsson discloses an apparatus/system comprising: a digital broadcast receiver configured to receive digital broadcasting information from a plurality of wireless transmitters, wherein the digital broadcasting receiver is configured to receive at least a first portion of the information as a first transmission burst, said first transmission burst broadcast by a first wireless transmitter; and an election module configured to switch reception from the first wireless transmitter to a second wireless transmitter (see col. 5, line 40 - col. 11, line 42) and switching reception directly to said second wireless transmitter (see fig. 1e). Jonsson does not specifically disclose that the receiver is a digital video broadcasting. In an analogous art. Chen discloses wherein the information is a digital video broadcasting (see abstract), thereby providing enhanced services. Also, Chen discloses: receiving by the mobile station a first video broadcasting signal broadcast by a first wireless transmitter (see col. 6, lines 61-66), if said first signal meets a first predefined criterion (see col. 8, lines 8-13), determining at the apparatus that said data from a second wireless transmitter meets a second predefined criterion (see col. 8, lines 8-43; col. 12, lines 22-41; col. 13, line 46 - col. 14, line 5), the mobile station deriving video broadcasting signal data from a second video broadcasting signal by a second wireless transmitter (see col. 8, lines 28-32) and doing a handover by the synchronized first and second digital video broadcasting wireless transmitters (see col. 8. lines 54-57; col. 7. lines 62-67); thereby allowing the transmission of digital video broadcasting. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add these teaching to the Jonsson method for maintaining the communication service as suggested by Jonsson in col. 1, lines 26-29

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and Chen in col. 2, lines 44-47 and enhance the services (see col. 4, lines 35-41). Jonsson and Chen do not specifically disclose an elastic buffer in the receiver. In another analogous art, Makinen discloses an elastic buffer in the receiver (see col. 2, line 59 - col. 3, line 14). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to add this teaching to the Jonsson apparatus for a reliable reception of data even if the timing are not precise. Although it obvious that the above references switch the reception of the transmitters between burst [packets] because that is how is normally done in GSM and TDMA system, the above reference omits what is well-known to those skilled in the art and already available to the public. In an analogous art, Upton discloses switch the reception of the transmitters between burst [packets, frames] (see col. 7, lines 56-57), the whole purpose of the handover is to permit a mobile user to continue to receive the data. Hard handover are commonly done between bursts [packets] for the simple purpose of maintaining the integrity of the data. One of the ordinary skills in the art would recognize that a handover in the middle of a burst would jeopardize the burst and would wait for the burst to end before attempting the handover. For example, this would be as obvious to one of the ordinary skills in the art as to a pedestrian trying to cross a street; a pedestrian trying to cross a busy street would recognize that crossing the street would jeopardize his safety and would wait for the crossing signal before attempting the crossing. Therefore, making the handover between the burst would bring the predictable result of a reliable reception of data.

As to claim 18, Jonsson discloses a system wherein said first criterion is met if a receiver signal strength value for said first signal measured by the apparatus is less

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than a predetermined value (see col. 9, lines 9-20; col. 10, lines 3-55).

As to claims 10 and 19-20, Jonsson discloses an apparatus/system wherein said first and second is met by been greater or smaller than a predetermined value (see col. 10, lines 3-55). Jonsson does not specifically disclose criterion is a bit error rate. Chen discloses were the criterion is a bit error rate and deriving it from the signal (see col. 8, lines 10-14).

As to claim 39, Jonsson discloses wherein the receiver system comprises a mobile terminal (see col. 1, lines 5-8).

 Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen and Makinen and Upton as applied to claim 16 above, and further in view of Doshi (U.S. Patent 5,936,965).

As to claim 17, Jonsson discloses a transmitter and encapsulating a transmission burst as mentioned above. Doshi discloses a transmitter using more than one protocol (see abstract). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for compatibility purposes.

 Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen US 6731936 B2 and further in view of Malek and Upton as applied to claim 31 above, and further in view of Doshi (U.S. Patent 5,936,965).

As to claim 32, Jonsson discloses a transmitter and encapsulating a transmission burst as mentioned above. Doshi discloses a transmitter using more than one protocol (see abstract). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for compatibility purposes.

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19. Claims 40 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen further in view of Makinen and Upton as applied to claims 9 and 16 above, and further in view of Malek.

As to claim 40, the combination of Jonsson discloses the digital broadcasting system everything claimed as explained above except for wherein executing a hand-over from said first transmitter to said at least one other transmitter upon receipt of said transmission burst comprises completing the hand-over prior to a consecutive transmission burst transmitted by the synchronized first and other transmitters. In an analogous art, Malek discloses wherein executing a hand-over from said first transmitter to said at least one other transmitter upon receipt of said transmission burst comprises completing the hand-over prior to a consecutive transmission burst transmitted by the synchronized first and other transmitters (see col. 6, lines 31-35; col. 3, lines 56 67; col. 4, lines 10-14).

As to claim 44, Malek discloses method wherein said step of selecting said second wireless transmitter for receiving the information is performed after receipt of a signal transmission burst from said first wireless transmitter, and prior to receipt of a consecutive signal transmission burst from said second wireless transmitter (see col. 6, lines 31-35).

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson
in view of Chen and Makinen and Upton as applied to claim 14 above, and further in
view of Lim (U.S. Patent US006766168B1).

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As to claim 15, the combination of Jonsson discloses everything claimed as explained above except for the apparatus wherein said stream filter comprises an Internet Protocol (IP) filter. In an analogous art, Lim discloses a apparatus wherein said stream filter comprises an Internet Protocol (IP) filter (see col. 4, lines 23-39), thereby allowing the use of the Internet in the mobile device. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for enhanced features for the user.

21. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson (U.S. Patent 5,513,246) in view of Chen US 6731936 B2 and further in view of Malek (U.S. Patent US005822313A) and Upton as applied to claim 24 above, and further in view of Lim (U.S. Patent US006766168B1).

As to claim 30, the combination of Jonsson discloses everything claimed as explained above except for the apparatus wherein said stream filter comprises an Internet Protocol (IP) filter. Lim discloses a apparatus wherein said stream filter comprises an Internet Protocol (IP) filter (see col. 4, lines 23-39), thereby allowing the use of the Internet in the mobile device. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for enhanced features for the user.

22. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson in view of Chen and further in view of Makinem and Upton as applied to claim 9 above, and further in view of TR 101 190 V1.1.1 (1997-12) Digital Video Broadcasting (DVB); Implementation guidelines for DVB terrestrial services; Transmission aspects.

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As to claim 47, the combination of Jonsson discloses everything claimed as explained above except for apparatus wherein the digital video broadcasting information is transmitted at a first data transmission rate, and wherein the first transmission burst has a second data transmission rate greater than the first data transmission rate. In an analogous art, TR 101 190 V1.1.1 (1997-12) Digital Video Broadcasting (DVB); Implementation guidelines for DVB terrestrial services; Transmission aspects discloses an apparatus wherein the digital video broadcasting information is transmitted at a first data transmission rate, and wherein the first transmission burst has a second data transmission rate greater than the first data transmission rate (see section 4 and 4.1, pages 12-13). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings to simulcast broadcasting of different program with different error protection and coverage areas.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCOS L. TORRES whose telephone number is (571)272-7926. The examiner can normally be reached on 9:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-252-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Supervisory Patent Examiner, Art Unit 2617

/Marcos L Torres/

Examiner, Art Unit 2617